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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,065	08/20/2004	Chien-Fong Kuo	ACMP0145USA	5064
27765	7590	06/23/2005	EXAMINER	
NORTH AMERICA INTERNATIONAL PATENT OFFICE (NAIPC)			SOHN, SEUNG C	
P.O. BOX 506			ART UNIT	PAPER NUMBER
MERRIFIELD, VA 22116			2878	

DATE MAILED: 06/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/711,065	KUO, CHIEN-FONG	
	Examiner	Art Unit	
	Seung C. Sohn	2878	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-12 and 16 is/are rejected.
- 7) ☒ Claim(s) 13-15 and 17-20 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. ***Claims 1-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Takeuchi (Patent No. US 5,978,614).***

Regarding claims 1, 8-9, 11 and 16, Takeuchi shows in Fig. 1 a light source (37, i.e., lamp) for generating a light to form an image; an image capturing apparatus (43, i.e., CCD) for capturing an image occupying a plurality of pixels of the image capturing apparatus; and an image processing apparatus for calculating a plurality of gray levels of the plurality of pixels, and calculating a characteristic parameter (brightness) of the light source according to the plurality of gray levels (Col. 1, lines 49-65 and Col. 4, lines 1-12) .

Regarding claims 2 and 12, Takeuchi shows in Fig. 1 an image forming apparatus (42, i.e., condensing lens) installed between the light source (37) and the image capturing apparatus (42), and the image capturing apparatus captures the image resulted from the image forming apparatus.

Regarding claim 3, Takeuchi shows in Fig. 1 that the image forming apparatus comprises a screen (lens) for the light to be projected on, and the image capturing apparatus captures the image by detecting the light penetrating the screen.

Regarding claim 4, Takeuchi shows in Fig. 1 the image forming apparatus further comprises an image forming lens for the light to be focused on the screen.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. *Claims 5-7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeuchi (Patent No. US 5,978,614).*

Regarding claims 5-7 and 10, Takeuchi shows the claimed invention as above, but is silent that the device comprises a clamping device, an aperture, a shading plate and a filter. It is notoriously well known to the person ordinary skill in the art a clamping device, an aperture, a shading plate and a filter. It would have been obvious to one of ordinary skill in the art to provide a clamping device, an aperture, a shading plate and a filter to the device of Takeuchi for the purpose of fixing the lamp, focusing the light beam from the lamp, preventing other light and blocking unwanted wavelengths of light, respectively.

Allowable Subject Matter

5. **Claims 13-15 and 17-20** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter:

Claim 13 is allowable because the prior art fails to disclose or make obvious, either singly or in combination, a light source testing method comprising, in addition to the other recited features of the claim, "defining the distance between the light source center c and the image center b as D_2 ; calculating a center deviation D_2/D_1 to detect the uniformity of the light source".

Claim 14 is allowable because the prior art fails to disclose or make obvious, either singly or in combination, a light source testing method comprising, in addition to the other recited features of the claim, "detecting the brightness of the light source by a product $V=h*Q_2$ of the gray level difference h and the area Q_2 ".

Claim 15 is allowable because the prior art fails to disclose or make obvious, either singly or in combination, a light source testing method comprising, in addition to the other recited features of the claim, "defining a ratio of sides R_1 , a ratio of areas R_2 , and an image shape corresponding value S to detect uniformity of the light source as follows: $R_1=X/Y$; $R_2=(Q_3/(X*Y))$; $S=R_1*R_2$ ".

Claims 17-20 are allowable because the prior art fails to disclose or make obvious, either singly or in combination, a light source testing method comprising, in

addition to the other recited features of the claim, "evaluating brightness and uniformity of the light source by calculating a P value as follows: $P=(1-D2/D1)*V*S*I$ ".

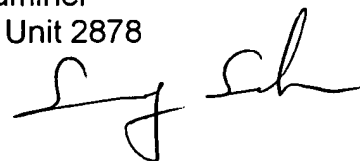
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seung C. Sohn whose telephone number is (571) 272-2446. The examiner can normally be reached on Monday through Friday from 8:30 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Seung C. Sohn
Examiner
Art Unit 2878

A handwritten signature in black ink, appearing to be 'Sg Sohn', written over the printed name and title.